The Journal of

Steroid Biochemistry & Molecular Biology

Editor-in-Chief
J.R. PASQUALINI

VOLUME CONTENTS,
SUBJECT AND AUTHOR INDEX

Volume 76
2001

Pergamon

The Journal of
Steroid Biochemistry and Molecular Biology

EDITOR-IN-CHIEF

J. R. Pasqualini

Steroid Hormone Research Unit, Institut de Puériculture, 26 Boulevard Brune, 75014 Paris, France
Tel.: + 33-1-45399109; Fax: + 33-1-45426121; E-mail: jorge.pasqualini@wanadoo.fr

HONORARY EDITOR-IN-CHIEF

R. Scholler

EDITORS

B. Groner: Steroid hormone action, cytokine signalling, breast cancer and transcriptional regulation

J. Kato: Receptors in brain and pituitary. Reproductive endocrinology, neuroendocrinology, hormones and endometrial/ovarian tumors

L. Martini: Steroid physiology, steroid biochemistry, steroidal contraception and neuroendocrinology

CORRESPONDING EDITORS

M. Beato, Marburg/Lahn, Germany
A. S. Bhatnagar, Basel, Switzerland
R. Bouillon, Leuven, Belgium
A. Brodie, Baltimore, U.S.A.
K. J. Catt, Bethesda, U.S.A.
G. Chetrite, Paris, France
J. A. Cidlowski, Research Triangle Park, U.S.A.
P. D. Darbre, Reading, U.K.
G. Daxenbichler, Innsbruck, Austria
A. De Nicola, Buenos Aires, Argentina
E. R. DeSombre, Chicago, U.S.A.
B. N. Diaz-Chico, Las Palmas, Spain
R. B. Dickson, Washington, U.S.A.
M. Dowsett, London, U.K.
M. L. Dufau, Bethesda, U.S.A.
D. P. Edwards, Denver, U.S.A.
H. A. Eriksson, Stockholm, Sweden
J. W. Funder, Prahran, Australia
S. A. Fuqua, Houston, U.S.A.
G. Greene, Chicago, U.S.A.
J.-Å. Gustafsson, Huddinge, Sweden
K. B. Horwitz, Denver, U.S.A.
I. Huhtaniemi, Turku, Finland
V. C. Jordan, Chicago, U.S.A.
B. S. Katzenellenbogen, Urbana, U.S.A.
A. M. Kaye, Rehovot, Israel
J. Kitawaki, Kyoto, Japan
E. R. de Kloet, Leiden, The Netherlands
H. J. Kloosterboer, Oss, The Netherlands
F. Labrie, Quebec, Canada
S. Liao, Chicago, U.S.A.
V. B. Mahesh, Augusta, U.S.A.
B. S. McEwen, New York, U.S.A.
H. Michna, Cologne, Germany
E. Milgrom, Le Kremlin-Bicêtre, France
L. J. Murphy, Winnipeg, Canada
A. Naray-Fejes-Toth, Hanover, U.S.A.
M. I. New, New York, U.S.A.
A. W. Norman, Riverside, U.S.A.
T. Ojasoo, Montrouge, France
J. Paris, Monaco
M. G. Parker, London, U.K.
G. Pérez-Palacios, Mexico City, Mexico
W. B. Pratt, Ann Arbor, U.S.A.
J. P. Raynaud, Paris, France
R. Renkawitz, Giessen, Germany
H. Rochefort, Montpellier, France
E. R. Sanchez, Toledo, U.S.A.
B. Sato, Osaka, Japan
M. Serio, Florence, Italy
E. R. Simpson, Clayton, Australia
L. Stárka, Prague, Czech Republic
R. L. Sutherland, Darlinghurst, Australia
J. H. H. Thijssen, Utrecht, The Netherlands
D. O. Toft, Rochester, MN, U.S.A.
P. Tuohimaa, Tampere, Finland
G. Verhoeven, Leuven, Belgium
A. Vermeulen, Ghent, Belgium
P. Vihko, Oulu, Finland
G. Vollmer, Dresden, Germany
C. R. Wira, Hanover, U.S.A.

HONORARY ASSOCIATE EDITORS

H. Adlercreutz, Helsinki, Finland
E. V. Jensen, Hamburg, Germany
R. J. B. King, Guildford, U.K.

Publication Frequency: Published semi-monthly in 4 volumes.

Publication information: The Journal of Steroid Biochemistry and Molecular Biology (ISSN 0960–0760). For 2001, volumes 76–79 are scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (http://www.elsevier.nl/locate/jsbmb). Further information is available on this journal and other Elsevier Science products through Elsevier's website: (http://www.elsevier.nl). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

Periodicals postage paid at Rahway, New Jersey. The Journal of Steroid Biochemistry and Molecular Biology (ISSN 0960–0760) is published semi monthly in 4 volumes by Elsevier Science Ltd., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK. The annual subscription in the USA is $3538.00.
The Journal of Steroid Biochemistry and Molecular Biology is circulated by Mercury International Limited, 365 Blair Road, Avenel, NJ 07001, USA.
POSTMASTER: Please send address corrections to The Journal of Steroid Biochemistry and Molecular Biology:, c/o Customer Services, Elsevier Science Inc., 655 Avenue of the Americas, New York, NY 10010, USA.

© 2001 Elsevier Science Ltd. All rights reserved

PII: S0960-0760(01)00055-3

LIST OF CONTENTS

JANUARY–MARCH 2001

Vol. 76, Nos. 1–5

Preface
J.R. Pasqualini 1 Proceedings of the 14th International Symposium of the Journal of Steroid Biochemistry & Molecular Biology: "Recent Advances in Steroid Biochemistry & Molecular Biology" (Quebec, Canada, 24–27 June 2000)

Steroid Receptors, Structure and Mechanism of Action
Pavlos Pissios, Iphigenia Tzameli and David D. Moore 3 New insights into receptor ligand binding domains from a novel assembly assay

Michael J. Hendzel, Michael J. Kruhlak, Natalie A.B. MacLean, F.-Michel Boisvert, Melody A. Lever and David P. Bazett-Jones 9 Compartmentalization of regulatory proteins in the cell nucleus

F. Claessens, G. Verrijdt, E. Schoenmakers, A. Haelens, B. Peeters, G. Verhoeven and W. Rombauts 23 Selective DNA binding by the androgen receptor as a mechanism for hormone-specific gene regulation

John D. Baxter, Wolfgang H. Dillmann, Brian L. West, Russ Huber, J. David Furlow, Robert J. Fletterick, Paul Webb, James W. Apriletti and Thomas S. Scanlan 31 Selective modulation of thyroid hormone receptor action

David Goltzman, John White and Richard Kremer 43 Studies of the effects of 1,25-dihydroxyvitamin D on skeletal and calcium homeostasis and on inhibition of tumor cell growth

Anthony W. Norman, Seiichi Ishizuka and William H. Okamura 49 Ligands for the vitamin D endocrine system: different shapes function as agonists and antagonists for genomic and rapid response receptors or as a ligand for the plasma vitamin D binding protein

Steroids and Cancer
Anait S. Levenson, Jennifer I. MacGregor Schafer, David J. Bentrem, Katherine M. Pease and V. Craig Jordan 61 Control of the estrogen-like actions of the tamoxifen–estrogen receptor complex by the surface amino acid at position 351

Robert Clarke, Todd C. Skaar, Kerrie B. Bouker, Natalie Davis, Y. Richard Lee, James N. Welch and Fabio Leonessa 71 Molecular and pharmacological aspects of antiestrogen resistance

A.M. Kaye, M. Spatz, A. Waisman, S. Sasson, S. Tamir, J. Vaya and D. Somjen 85 Paradoxical interactions among estrogen receptors, estrogens and SERMS: mutual annihilation and synergy

G.S. Chetrite and J.R. Pasqualini 95 The selective estrogen enzyme modulator (SEEM) in breast cancer

V.K. Moudgil, Sumi Dinda, Nidhi Khattree, Suresh Jhanwar, Paul Alban and Cliff Hurd 105 Hormonal regulation of tumor suppressor proteins in breast cancer cells

H. Rochefort, D. Chalbos, S. Cunat, A. Lucas, N. Platet and M. Garcia 119 Estrogen regulated proteases and antiproteases in ovarian and breast cancer cells

P. Tuohimaa, A. Lyakhovich, N. Aksenov, P. Pennanen, H. Syvälä, Y.R. Lou, M. Ahonen, T. Hasan, P. Pasanen, M. Bläuer, T. Manninen, S. Miettinen, P. Vilja and T. Ylikomi 125 Vitamin D and prostate cancer

D.M. Avila, S. Zoppi and M.J. McPhaul 135 The androgen receptor (AR) in syndromes of androgen insensitivity and in prostate cancer

Control of Steroidogenesis, Including Defects in Steroid Metabolism

Van Luu-The 143 Analysis and characteristics of multiple types of human 17β-hydroxysteroid dehydrogenase

Kaori Koyama, Kathy Myles, Robin Smith and Zygmunt Krozowski 153 Expression of the 11β-hydroxysteroid dehydrogenase type II enzyme in breast tumors and modulation of activity and cell growth in PMC42 cells

Maria I. New, S. Nimkarn, D.D. Brandon, S. Cunningham-Rundles, R.C. Wilson, R.S. Newfield, J. Vandermeulen, N. Barron, C. Russo, D.L. Loriaux and B. O'Malley 161 Resistance to multiple steroids in two sisters

Pulak R. Manna, Partha Roy, Barbara J. Clark, Douglas M. Stocco and Ilpo T. Huhtaniemi 167 Interaction of thyroid hormone and steroidogenic acute regulatory (StAR) protein in the regulation of murine Leydig cell steroidogenesis

Catherine Harper-Wynne and Mitchell Dowsett 179 Recent advances in the clinical application of aromatase inhibitors

Maria L. Dufau, Chon-Hwa Tsai-Morris, Pei-Zhong Tang and Azra Khanum 187 Regulation of steroidogenic enzymes and a novel testicular RNA helicase

A.S. Bhatnagar, A.M.H. Brodie, B.J. Long, D.B. Evans and W.R. Miller 199 Intracellular aromatase and its relevance to the pharmacological efficacy of aromatase inhibitors

Steroids and the Immune System

Paul K. Wallace, Grant R. Yeaman, Kristy Johnson, Jane E. Collins, Paul M. Guyre and Charles R. Wira 203 MHC class II expression and antigen presentation by human endometrial cells

Sébastien Gingras, Stéphanie Côté and Jacques Simard 213 Multiple signal transduction pathways mediate interleukin-4-induced 3β-hydroxysteroid dehydrogenase/Δ5–Δ4 isomerase in normal and tumoral target tissues

Steroids and the Menopause

Hideo Honjo, Noriko Kikuchi, Tetsuya Hosoda, Keiko Kariya, Yoshiyuki Kinoshita, Koichi Iwasa, Tomoharu Ohkubo, Kazunori Tanaka, Takaya Tamura, Mamoru Urabe and Mitsuhiro Kawata 227 Alzheimer's disease and estrogen

H.J Kloosterboer 231 Tibolone: a steroid with a tissue-specific mode of action

III Contents index for Volume 76 (2001)

V Subject index for Volume 76 (2001)

VII Author index for Volume 76 (2001)